Lakeland Tychem® 10000 Level B Coverall

**ID# 150** 



Particle separation **Technology** 

10100 Tychem® 10000 **Stock Number** 

TK100 Tychem® TK

Level B, Percutaneous **Protection Type** 

**Equipment Category** Level B, coverall (collar, open wrists, and ankles)

4 wk to 5 wk ARO **Availability** 

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

www.lakeland.com Source

Not applicable Certification

**Operational Parameters** 

**Chemical Warfare (CW)** Nerve agents (GA, GB, GD, and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand **Agents Protected Against** 

Service at 800-558-9329 and request Document 595.

**Biological Warfare (BW)** 

**Agents Protected Against** 

Protects against all biological toxins and pathogens

**Toxic Industrial (TIMs)** 

**Protected Against** 

Excellent protection against a wide variety of TIMs

**Duration of Protection** Minimum of 8 h

> E-467 ID# 150

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 15 lb per case, three in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

Construction Type Seam sewn and the heat-sealed with tape

**Color** Lime-green

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F to

225 °F

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

E-468 ID# 150



**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

Option is available

**EOD Compatibility** Yes

E-469 ID# 150

General

Name Lakeland Tychem® 10000 Level B Coverall

**ID# 151** 



**Technology** Particle separation

Stock Number 10110 Tychem® 10000

TK110 Tychem® TK

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (collar, elastic wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist) POC: Steve McCully (Product Manager)

800– 645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW)
Agents Protected Against

Nerve agents (GA, GB, GD, and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand

Service at 800–558–9329 and request Document 595.

**Biological Warfare (BW) Agents Protected Against** 

Protects against all biological toxins and pathogens

Excellent protection against a wide variety of TIMs

**Toxic Industrial (TIMs)** 

**Protected Against** 

**Duration of Protection** Minimum of 8 h

E-470 ID# 151

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 15 lb per case, three in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** Lime-green

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225 °F

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-471 ID# 151

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-472 ID# 151

General

Name Lakeland Tychem® 10000 Level B Coverall

**ID# 152** 



**Technology** Particle separation

Stock Number 10120 Tychem<sup>®</sup> 10000

TK120 Tychem® TK

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, open wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Nerve agents (GA, GB, GD, and VX); blister agents (HD and L). For

specific test results, call the DuPont Protective Apparel Fax-on-Demand

Service at 800–558–9329 and request Document 595.

Biological Warfare (BW)

**Agents Protected Against** 

**Agents Protected Against** 

Protects against all biological toxins and pathogens

**Toxic Industrial (TIMs)** 

**Protected Against** 

Excellent protection against a wide variety of TIMs

**Duration of Protection** Minimum of 8 h

E-473 ID# 152

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 15 lb per case, three in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

Construction Type Seam sewn and the heat-sealed with tape

**Color** Lime-green

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225  $^{\circ}F$ 

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-474 ID# 152

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-475 ID# 152

Lakeland Tychem® 10000 Level B Coverall Name

**ID# 153** 



Particle separation **Technology** 

10130 Tychem® 10000 **Stock Number** 

TK130 Tychem® TK

**Protection Type** Level B, Percutaneous

Level B, coverall (hood, elastic wrists, and ankles) **Equipment Category** 

**Availability** 4 wk to 5 wk ARO

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

www.lakeland.com Source

Not applicable Certification

**Operational Parameters** 

**Chemical Warfare (CW) Agents Protected Against**  Nerve agents (GB and VX); blister agents (HD and L). Questions call

A broad range of liquid chemicals. Questions call Lakeland Customer

Lakeland Customer Service at 800-645-9291.

**Biological Warfare (BW)** 

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs) Protected Against** 

Service at 800-645-9291.

E-476 ID# 153

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup> GB and L: Greater than 6 h at 10 g/m<sup>2</sup> D: Greater than 3 h at 10 g/m<sup>2</sup>

Ouestions call Lakeland Customer Service at 800–645–9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 15 lb

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

Construction Type Seam sewn and the heat-sealed with tape

**Color** Lime-green

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225 °F

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

E-477 ID# 153

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

Option is available

**EOD Compatibility** Yes

E-478 ID# 153

General

Name Lakeland Tychem® 10000 Level B Coverall

**ID# 154** 

**Technology** Particle separation

Stock Number 10140 Tychem® 10000

TK140 Tychem® TK

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, open wrists, and boots)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

Carl Brown (Technical Product Specialist)

Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW)

**Agents Protected Against** 

Nerve agents (GA, GB, GD, and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand

Service at 800–558–9329 and request Document 595.

**Biological Warfare (BW)** 

**Agents Protected Against** 

Protects against all biological toxins and pathogens

**Toxic Industrial (TIMs)** 

**Protected Against** 

**Duration of Protection** 

Excellent protection against a wide variety of TIMs

Minimum of 8 h

E-479 ID# 154

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 16 lb per case, three in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** Lime-green

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225 °F

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-480 ID# 154

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-481 ID# 154

Lakeland Tychem® 10000 Level B Coverall

**ID# 155** 



**Technology** Particle separation

10150 Tychem<sup>®</sup> 10000 **Stock Number** 

TK150 Tychem® TK

Level B, Percutaneous **Protection Type** 

Level B, coverall (hood, elastic face, elastic wrists, and boots) **Equipment Category** 

4 wk to 5 wk ARO **Availability** 

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist) POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

Source www.lakeland.com

Not applicable Certification

**Operational Parameters** 

Nerve agents (GA, GB, GD, and VX); blister agents (HD and L). For **Chemical Warfare (CW) Agents Protected Against** 

Minimum of 8 h

specific test results, call the DuPont Protective Apparel Fax-on-Demand

Service at 800–558–9329 and request Document 595.

**Biological Warfare (BW)** 

**Agents Protected Against** 

Protects against all biological toxins and pathogens

**Toxic Industrial (TIMs)** 

**Protected Against** 

**Duration of Protection** 

Excellent protection against a wide variety of TIMs

E-482 ID# 155

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 16 lb per case, three in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** Lime-green

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225 °F

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-483 ID# 155

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-484 ID# 155

### General

Name Lakeland Tychem® 10000 Level B Coverall

**ID# 156** 



**Technology** Particle separation

Stock Number 10160 Tychem® 10000

TK160 Tychem® TK

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, elastic wrists, and boots with boot

flaps)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

**Chemical Warfare (CW) Agents Protected Against** 

Nerve agents (GA, GB, GD, and VX); blister agents (HD and L). For specific test results, call the DuPont Protective Apparel Fax-on-Demand

Service at 800-558-9329 and request Document 595.

Protects against all biological toxins and pathogens

Excellent protection against a wide variety of TIMs

**Biological Warfare (BW) Agents Protected Against** 

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**Toxic Industrial (TIMs)** 

**Protected Against** 

**Duration of Protection** Minimum of 8 h

E-485 ID# 156

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 16 lb per case, three in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** Lime-green

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225  $^{\circ}F$ 

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-486 ID# 156

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-487 ID# 156

Lakeland Tychem® 10000 Level B Coverall Name

**ID# 157** 



**Technology** Particle separation

10165 Tychem® 10000 **Stock Number** 

TK165 Tychem® TK

Level B, Percutaneous **Protection Type** 

Level B, coverall (respirator-fit hood, elastic wrists, double storm flap, **Equipment Category** 

and boots with boot flaps)

4 wk to 5 wk ARO **Availability** 

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

www.lakeland.com Source

Certification Not applicable

**Operational Parameters** 

**Chemical Warfare (CW) Agents Protected Against** 

Lakeland Customer Service at 800-645-9291.

**Biological Warfare (BW)** 

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

A broad range of liquid chemicals. Questions call Lakeland Customer

Nerve agents (GB and VX); blister agents (HD and L). Questions call

Service at 800-645-9291.

E-488 ID# 157

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup> GBand L: Greater than 6 h at 10 g/m<sup>2</sup> D: Greater than 3 h at 10 g/m<sup>2</sup>

Questions call Lakeland Customer Service at 800-645-9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 16 lb

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** Lime-green

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Tested and inspected after every use

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Operational temperature range of Tychem 10000 material is -25 °F

to 225 °F

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not specified

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** Not specified

E-489 ID# 157

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** Not specified

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-490 ID# 157

General

Name Lakeland Tyvek® QC Level B Coverall

**ID# 158** 



**Technology** Particle separation

Stock Number 70100

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (collar, open wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)
POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Not tested

**Agents Protected Against** 

Biological Warfare (BW) Not specified

**Agents Protected Against** 

Toxic Industrial (TIMs) Many inorganic acids, bases, and other liquid chemicals such as

**Protected Against** pesticides. Questions call Lakeland Customer Service at 800–645–9291.

E-491 ID# 158

**Duration of Protection** For specific TIMs data, contact Lakeland Customer Service at

800-645-9291.

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 6 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Sealed seam

**Color** Yellow or grey

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

**Special Requirements** 

**Training Requirements** None

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-492 ID# 158

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-493 ID# 158

General

Name Lakeland Tyvek QC Level B Coverall

**ID# 159** 



**Technology** Particle separation

Stock Number 70110

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (collar, elastic wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

**Manufacturer** Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

**Chemical Warfare (CW)** 

**Agents Protected Against** 

Not tested

Biological Warfare (BW)

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

Protected Against

Many inorganic acids, bases, and other liquid chemicals such as

pesticides. Questions call Lakeland Customer Service at 800-645-9291.

**Duration of Protection** For specific TIMs data, contact Lakeland Customer Service at

800-645-9291

E-494 ID# 159

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 6 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Sealed seam

**Color** Yellow or grey

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

**Training Requirements** None

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-495 ID# 159

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

**EOD Compatibility** Yes

Option is available

E-496 ID# 159

Lakeland Tyvek® QC Level B Coverall

**ID# 160** 



**Technology** Particle separation

**Stock Number** 70120

Level B, Percutaneous and respiratory **Protection Type** 

Level B, coverall (hood, elastic face, open wrists, and ankles) **Equipment Category** 

4 wk to 5 wk ARO **Availability** 

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Brown (Technical Product Specialist) POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

**Manufacturer Type** Domestic

**Developer** Lakeland Industries

www.lakeland.com Source

Not applicable Certification

**Operational Parameters** 

Not tested **Chemical Warfare (CW)** 

**Agents Protected Against** 

Not specified

**Biological Warfare (BW)** 

**Agents Protected Against** 

**Toxic Industrial (TIMs)** 

**Protected Against Duration of Protection**  Many inorganic acids, bases, and other liquid chemicals such as pesticides. Questions call Lakeland Customer Service at 800-645-9291.

For specific TIMs data, contact Lakeland Customer Service at

800-645-9291

E-497 ID# 160

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 7 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Sealed seam

**Color** Yellow or grey

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

**Training Requirements** None

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-498 ID# 160

**Surveillance Testing** Visually inspect prior to use for holes or tears

Option is available

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

**EOD Compatibility** Yes

> E-499 ID# 160

General

Name Lakeland Tyvek® QC Level B Coverall

**ID# 161** 



**Technology** Particle separation

Stock Number 70130

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (hood, elastic face, wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW)

**Agents Protected Against** 

Not tested

Biological Warfare (BW)

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

Many inorganic acids, bases, and other liquid chemicals such as

pesticides. Questions call Lakeland Customer Service at 800-645-9291.

**Duration of Protection** For specific TIMs data, contact Lakeland Customer Service at

800-645-9291

E-500 ID# 161

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 7 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Sealed seam

**Color** Yellow or grey

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

**Training Requirements** None

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-501 ID# 161

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-502 ID# 161

General

Name Lakeland Tyvek® QC Level B Coverall

**ID# 162** 



**Technology** Particle separation

Stock Number 70140

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, open wrists, and boots)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Not tested

**Agents Protected Against** 

Biological Warfare (BW) Not specified

**Agents Protected Against** 

Toxic Industrial (TIMs) Many inorganic acids, bases, and other liquid chemicals such as

**Protected Against** pesticides. Questions call Lakeland Customer Service at 800–645–9291.

E-503 ID# 162

**Duration of Protection** For specific TIMs data, contact Lakeland Customer Service at

800-645-9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 8 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Sealed seam

**Color** Yellow or grey

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

**Special Requirements** 

**Training Requirements** None

Training Available Available through regional sales representation

E-504 ID# 162

Manuals Available

User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-505 ID# 162

**General** 

Name Lakeland Tyvek® QC Level B Coverall

**ID# 163** 



**Technology** Particle separation

Stock Number 70150

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, elastic wrists, and boots)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW

Decatur, AL 35602Internet: www.lakeland.com POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW)

**Agents Protected Against** 

Not tested

Biological Warfare (BW)

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

Many inorganic acids, bases, and other liquid chemicals such as

pesticides. Questions call Lakeland Customer Service at 800-645-9291.

**Duration of Protection** For specific TIMs data, contact Lakeland Customer Service at

800-645-9291

E-506 ID# 163

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 8 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Sealed seam

**Color** Yellow or grey

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

**Training Requirements** None

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

E-507 ID# 163



**Support Equipment** Non

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

Option is available

**EOD Compatibility** Yes

E-508 ID# 163

#### General

Name Lakeland Tychem® SL Level B Coverall

**ID# 164** 



**Technology** Particle separation

Stock Number 72110

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (collar, elastic wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Nerve agents (GB and VX); blister agents (HD and L). Questions call

**Agents Protected Against** Lakeland Customer Service at 800–645–9291.

Biological Warfare (BW) Not specified

**Agents Protected Against** 

Toxic Industrial (TIMs) A broad range of liquid chemicals. Questions call Lakeland Customer

**Protected Against** Service at 800–645–9291.

E-509 ID# 164

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup>
GB and L: Greater than 6 h at 10 g/m<sup>2</sup>

D: Greater than 3 h at 10 g/m<sup>2</sup>

Questions call Lakeland Customer Service at 800-645-9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 6 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** White

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

E-510 ID# 164

#### Special Requirements

**Training Requirements** None

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

Health Hazards None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-511 ID# 164

Lakeland Tychem® SL Level B Coverall Name

**ID# 165** 

Particle separation **Technology** 

72120 **Stock Number** 

Level B, Percutaneous **Protection Type** 

**Equipment Category** Level B, coverall (hood, elastic face, open wrists, and ankles)

4 wk to 5 wk ARO **Availability** 

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

www.lakeland.com Source

Certification Not applicable

**Operational Parameters** 

Nerve agents (GB and VX); blister agents (HD and L). Questions call **Chemical Warfare (CW)** 

Lakeland Customer Service at 800-645-9291. **Agents Protected Against** 

**Biological Warfare (BW) Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

A broad range of liquid chemicals. Questions call Lakeland Customer

Service at 800-645-9291

E-512 ID# 165

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup> GB and L: Greater than 6 h at 10 g/m<sup>2</sup>

D: Greater than 3 h at 10 g/m<sup>2</sup>

Questions call Lakeland Customer Service at 800-645-9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

<u>Physical Parameters</u>

Sizes Available S through 5X

Weight 7 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** White

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

E-513 ID# 165

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-514 ID# 165

General

Name Lakeland Tychem® SL Level B Coverall

**ID# 166** 



**Technology** Particle separation

Stock Number 72130

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (hood, elastic wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Nerve agents (GB and VX); blister agents (HD and L). Questions call

**Agents Protected Against** Lakeland Customer Service at 800–645–9291.

Biological Warfare (BW)

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

A broad range of liquid chemicals. Questions call Lakeland Customer

Service at 800–645–9291.

E-515 ID# 166

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup>
GB and L: Greater than 6 h at 10 g/m<sup>2</sup>

D: Greater than 2 h at 10 g/m<sup>2</sup>

D: Greater than 3 h at 10 g/m<sup>2</sup>

Questions call Lakeland Customer Service at 800-645-9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

<u>Physical Parameters</u>

Sizes Available S through 5X

Weight 7 lb

Package Size and Volume 16 1/8 in L x 10 7/8 in W x 8 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** White

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

E-516 ID# 166

#### Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

Health Hazards None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-517 ID# 166

#### General

Name Lakeland Tychem® SL Level B Coverall

**ID# 167** 



**Technology** Particle separation

Stock Number 72140

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (hood, elastic face, open wrists, and boots)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

**Manufacturer** Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

**Agents Protected Against** 

Chemical Warfare (CW) Nerve agents (GB and VX); blister agents (HD and L). Questions call

Agents Protected Against Lakeland Customer Service at 800–645–9291.

Biological Warfare (BW) Not specified

Toxic Industrial (TIMs) A broad range of liquid chemicals. Questions call Lakeland Customer

**Protected Against** Service at 800–645–9291.

E-518 ID# 167

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup> GB and L: Greater than 6 h at 10 g/m<sup>2</sup>

D: Greater than 3 h at 10 g/m<sup>2</sup>

Questions call Lakeland Customer Service at 800–645–9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 8 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** White

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

Special Requirements

Training Requirements Not specified

E-519 ID# 167

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-520 ID# 167

General

Name

Lakeland Tychem® SL Level B Coverall

**ID# 168** 



**Technology** Particle separation

Stock Number 72150

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, elastic wrists, and boots)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Nerve agents (GB and VX); blister agents (HD and L). Questions call

Agents Protected Against Lakeland Customer Service at 800–645–9291.

Biological Warfare (BW)

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

A broad range of liquid chemicals. Questions call Lakeland Customer

Service at 800-645-9291.

E-521 ID# 168

**Duration of Protection** Fabric test data: Average breakthrough time

VX: Greater than 12 h at 10 g/m<sup>2</sup> GB and L: Greater than 6 h at 10 g/m<sup>2</sup> D: Greater than 3 h at 10 g/m<sup>2</sup>

Ouestions call Lakeland Customer Service at 800–645–9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 8 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** White and grey

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

E-522 ID# 168

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-523 ID# 168

**General** 

Name Lakeland Tychem® SL Level B Coverall

**ID# 169** 



**Technology** Particle separation

Stock Number 72165

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (hood, 30" zipper extended to chin, double storm flap

with Velcro, elastic wrists, and boots with boot flaps)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW)
Agents Protected Against

Nerve agents (GB and VX); blister agents (HD and L). Questions call

Lakeland Customer Service at 800–645–9291.

Biological Warfare (BW)

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

A broad range of liquid chemicals. Questions call Lakeland Customer

Service at 800-645-9291.

E-524 ID# 170

**Duration of Protection** Fabric test data: Average Breakthrough Time

VX: Greater than 12 h at 10 g/m<sup>2</sup> GB and L: Greater than 6 h at 10 g/m<sup>2</sup>

D: Greater than 3 h at 10 g/m<sup>2</sup>

Questions call Lakeland Customer Service at 800–645–9291

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 8 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** White

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

E-525 ID# 170

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

Option is available

**EOD Compatibility** Yes

E-526 ID# 170

General

Name Lakeland Tychem® 9400 Level B Coverall

**ID# 170** 



**Technology** Particle separation

Stock Number 94100 Tychem<sup>®</sup> 9400

BR100 Tychem® BR

**Protection Type** Level B, Percutaneous

**Equipment Category** Level B, coverall (collar, open wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

**Protected Against** 

Chemical Warfare (CW) Nerve agents (GA, GB, GD, and VX); blister agents (HD and L)

**Agents Protected Against** 

Biological Warfare (BW) Not specified

**Agents Protected Against** 

**Toxic Industrial (TIMs)** A broad range of TIMs. Contact Lakeland for further information.

**Duration of Protection**Breakthrough time at minimum of 8 h, except ammonia at 45 min, dichloromethane at 391 min, and methanol at 150 min

E-527 ID# 170

**Recommended Use(s)** Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 12 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** School bus yellow

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-528 ID# 170

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-529 ID# 170

Lakeland Tychem® 9400 Level B Coverall Name

**ID# 171** 



Particle separation **Technology** 

94130 Tychem® 9400 **Stock Number** BR130 Tychem® BR

Level B, Percutaneous **Protection Type** 

Level B, coverall (hood, elastic wrists, and ankles) **Equipment Category** 

4 wk to 5 wk ARO **Availability** 

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

www.lakeland.com Source

Certification Not applicable

**Operational Parameters** 

**Chemical Warfare (CW)** 

**Agents Protected Against** 

Nerve agents (GA, GB, GD, and VX); blister agents (HD and L)

A broad range of TIMs. Contact Lakeland for further information.

**Biological Warfare (BW)** 

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

**Duration of Protection** Breakthrough time at minimum of 8 h, except ammonia at 45 min,

dichloromethane at 391 min, and methanol at 150 min

E-530 ID# 171

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 12 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** School bus yellow

**Logistical Parameters** 

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-531 ID# 171

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-532 ID# 171

**General** 

Name

Lakeland Tychem® 9400 Level B Coverall

**ID# 172** 



**Technology** Particle separation

Stock Number 94140 Tychem® 9400

BR140 Tychem® BR

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, open wrists, and ankles)

**Availability** 4 wk to 5 wk ARO

**Current User(s)** Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800–645–9291 (Tel) 256–350–3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW) Agents Protected Against Nerve agents (GA, GB, GD, and VX); blister agents (HD and L)  $\,$ 

A broad range of TIMs. Contact Lakeland for further information.

Biological Warfare (BW) Agents Protected Against

Not specified

**Toxic Industrial (TIMs)** 

**Protected Against** 

**Duration of Protection** Breakthrough time at minimum of 8 h, except ammonia at 45 min,

dichloromethane at 391 min, and methanol at 150 min

E-533 ID# 172

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 12 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** School bus yellow

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not specified

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

Launderability Suits are not launderable

**Accessories** None

Special Requirements

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

E-534 ID# 172



**Support Equipment** Non-

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

Option is available

**EOD Compatibility** Yes

E-535 ID# 172

General

Name Lakeland Tychem® 9400 Level B Coverall

**ID# 173** 



**Technology** Particle separation

Stock Number 94160 Tychem® 9400 BR160 Tychem® BR

**Protection Type** Level B, Percutaneous

Equipment Category Level B, coverall (hood, elastic face, elastic wrists, and boots with boot

flaps)

**Availability** 4 wk to 5 wk ARO

Current User(s) Government organizations, municipal HAZMAT teams, fire departments,

international HAZMAT/military organizations, and industry

Manufacturer Lakeland Industries, Inc.

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Manufacturer Type Domestic

**Developer** Lakeland Industries

Source www.lakeland.com

**Certification** Not applicable

**Operational Parameters** 

Chemical Warfare (CW)

**Agents Protected Against** 

Not specified

Biological Warfare (BW)

**Agents Protected Against** 

Toxic Industrial (TIMs)
Protected Against

**Duration of Protection** 

A broad range of TIMs. Contact Lakeland for further information.

Nerve agents (GA, GB, GD, and VX); blister agents (HD and L)

Breakthrough time at minimum of 8 h, except ammonia at 45 min,

dichloromethane at 391 min, and ethanol at 150 min

E-536 ID# 173

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

**Physical Parameters** 

Sizes Available S through 5X

Weight 14 lb per case, six in a case

Package Size and Volume Not specified

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** School bus yellow

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

Transportability No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

**Special Requirements** 

Training Requirements Not specified

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

**Surveillance Testing** 

Requirements

Visually inspect prior to use for holes or tears

E-537 ID# 173



**Support Equipment** Non

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

Capability

Option is available

**EOD Compatibility** Yes

E-538 ID# 173

Lakeland Tychem® 9400 Level B Coverall Name

**ID# 174** 



Particle separation **Technology** 

94165 Tychem® 9400 **Stock Number** BR165 Tychem® BR

Level B, Percutaneous **Protection Type** 

Level B, coverall (respirator-fit hood, elastic wrists, double storm flap, **Equipment Category** 

and boots with boot flaps)

4 wk to 5 wk ARO **Availability** 

Government organizations, municipal HAZMAT teams, fire departments, **Current User(s)** 

international HAZMAT/military organizations, and industry

Lakeland Industries, Inc. Manufacturer

202 Pride Lane, SW Decatur, AL 35602

Internet: www.lakeland.com

POC: Carl Brown (Technical Product Specialist)

POC: Steve McCully (Product Manager)

800-645-9291 (Tel) 256-350-3011 (Fax)

Domestic **Manufacturer Type** 

Lakeland Industries **Developer** 

www.lakeland.com **Source** 

Certification Not applicable

**Operational Parameters** 

**Chemical Warfare (CW) Agents Protected Against**  Nerve agents (GA, GB, GD, and VX); blister agents (HD and L)

A broad range of TIMs. Contact Lakeland for further information.

Breakthrough time at minimum of 8 h, except ammonia at 45 min,

**Biological Warfare (BW)** 

**Agents Protected Against** 

Not specified

**Toxic Industrial (TIMs)** 

**Duration of Protection** 

**Protected Against** 

dichloromethane at 391 min, and methanol at 150 min

E-539 ID# 174

**Recommended Use(s)**Tactical operations, HAZMAT teams, chemical/biological testing,

training, and warfare environments

Physical Parameters

Sizes Available S through 5X

Weight 14 lb per case, six in a case

Package Size and Volume 16 in L x 11 in W x 13 in H

**Power Requirements** None

Material Type Garment is selectively permeable

**Construction Type** Seam sewn and the heat-sealed with tape

**Color** School bus yellow

Logistical Parameters

Ease of Use Garment poses no major mobility or flexibility problems for wearer

compared to other Level B CPC

**Consumables** None

Maintenance Requirements Not specified

**Shelf Life** After 5 yr, recommended to use only for training

**Transportability** No support equipment required for transportation

**Operational Limitations** Off the shelf cooling systems are available. Operational limitations to be

decided by safety manager.

**Environmental Conditions** Designed to be worn in common outdoor conditions

Unit Cost Not applicable—cost to be determined by distributors

Maintenance Cost Not applicable

Warranty 90 d

**Don/Doff Information** Not specified

Use/Reuse Limited use

**Launderability** Suits are not launderable

**Accessories** None

Special Requirements

**Training Requirements** 

Training Available Available through regional sales representation

Manuals Available User manual and permeation guide available

E-540 ID# 174

Surveillance Testing Visually inspect prior to use for holes or tears

Requirements

**Support Equipment** None

**Testing Information** Not specified

**Applicable Regulations** None

**Health Hazards** None

**Communications Interface** 

**Capability** 

Option is available

**EOD Compatibility** Yes

E-541 ID# 174

General

Name Chemical Protective Overgarments (CPO)
LANX Fabric Systems

**ID# 175** 

**Technology** LANX is a durable composite fabric containing polymerically

encapsulated carbon for the absorption of chemical warfare agents. The overgarment also features a shell fabric with flame resistant or nonflame

resistant characteristics.

Stock Number Not applicable

**Protection Type** Percutaneous. The CPO provides liquid, vapor, and aerosol protection

against CB agents as well as flame resistance when required.

**Equipment Category** CPO consists of a coat and trousers with suspenders as well as accessories

such as all fabric glove liners, integrated gloves, and boot liners. Shell fabric is available in flame resistant (FR) and nonflame resistant (non-

FR).

**Availability** Lead-time depends on order volume. All CPOs custom made to order.

Current User(s) Center for Domestic Preparedness, Ft. McClellan, AL where students are

trained in live chemical warfare agent environments. The FBI HAZMAT

Response Unit.

Manufacturer LANX Fabric Systems

220 GBC Drive Newark, DE 19702 POC: Randall D. Lofland 302–451–3060 (Tel) 302–451–0208 (Fax)

e-mail: randall.lofland@xymid.com

Manufacturer Type Domestic

**Developer** DuPont developed the LANX technology. LANX Fabric Systems has

exclusive rights to manufacture and market the product.

Source LANX Fabric Systems

**Certification** All CPOs meet the chemical agent protective requirements of Military

Specification MIL-U-44435

**Operational Parameters** 

Chemical Warfare (CW)

Distilled mustard (HD), soman (GD), thickened soman (TGD), Lewisite

Agents Protected Against (L), VX, and other lower order agents such as sarin

E-542 ID# 175

Biological Warfare (BW) Agents Protected Against The CPU inherently protects against BW agents as the particulate size of a BW agent is larger than that of a CW agent making it easier to absorb

than CW agents

Toxic Industrial (TIMs)
Protected Against

Not specified

**Duration of Protection** The CPO is recommended for personnel responding to a WMD incident

who require protective apparel that permit the end user to work for extended periods of time in a chemical-biological environment. The CPO is recommended for search and rescue, emergency medical services, WMD Incident Command Support Personnel, HAZMAT response, and law enforcement (depending on application and task assignment). The CPO can be used throughout the identification, mitigation and clean up of a WMD event by a variety of first responders when Level A suits are not

required.

Recommended Use(s) Chemical agent vapors, aerosols, droplets, and all known biological

agents

Physical Parameters

Sizes Available Shirt and drawers: S/extra short, S/short, M/short, M/regular, M/long,

L/regular, L/long (sizing available upon request)
All fabric glove liners: S, M, L, and custom made XL

Integrated gloves: S, M, L, and XL Boot liners: S, M, L, and XL

Weight Weighs less than 5 lb per suit

Package Size and Volume The CPO is vacuum packed and occupies approximately 1 ft<sup>3</sup> of space

**Power Requirements** None

Material Type Proprietary

Construction Type Proprietary

**Color** Gray

Logistical Parameters

**Ease of Use** Very easy to use. Air permeable technology significantly reduces heat

stress allowing the user to work exponentially longer than nonpermeable

technologies.

**Consumables** Not specified

Maintenance Requirements Store in dry place

**Shelf Life** The ultimate shelf life of the CPO has yet to be determined. The

technology is 10 yr old and shows no signs of degradation during annual testing. The U.S. Military currently assesses the shelf life to be 12 yr.

**Transportability**May be transported easily whether in a backpack, garment bag, tote bag

or even hand carried

Operational Limitations The CPO provides excellent liquid, vapor, and aerosol protection

E-543 ID# 175

**Environmental Conditions** The CPO works well in most climates. Due care should be taken to keep

the CPO in a bag when not in use. The CPO's air permeable nature allows for the transportation of sweat away from the body, significantly reducing

heat stress.

Unit Cost Call for a quotation at 302–451–3060

POC: Randall D. Lofland

Maintenance Cost None if stored properly

Warranty The CPO is manufactured to Military Pattern PD 97–04 and meets the

chemical protective requirements of Military Specification MIL-U-44435

**Don/Doff Information** The CPO is easy to don and doff. One man may don and doff his own

CPO under normal circumstances. Some agencies require a two man

doffing procedure following contamination. Check your agency protocol.

Use/Reuse The CPO may be reused after wearing and laundering. After

contamination with CW agent, current military doctrine dictates disposing

of the garment properly.

Launderability Yes—The CPO is launderable

**Accessories**The CPO has accessories such as all fabric glove liners, integrated gloves,

and boot liners

Special Requirements

Training Requirements Minimal training required. Contaminated CPO doffing procedures may

vary. Check local protocols.

Training Available Introductory training is available upon request. Advanced training is

based upon agency protocol, and should be developed at the local level.

Manuals Available Care, use, and storage information is available if needed

**Surveillance Testing** 

Requirements

The manufacturer performs CCL4 testing annually prior to distribution to

end users. The end user should visually inspect the CPO at regularly

scheduled intervals.

Support Equipment Not applicable

**Testing Information** The most recent testing of the LANX CPO was performed using AVLAG

Test Operating Procedure (TOP) 8–2–501

**Applicable Regulations** The CPO is governed by the International Traffic and Arms Regulations

(ITAR)

**Health Hazards** MSDSs are on file, and no indication of health hazards present

**Communications Interface** 

**Capability** 

Not applicable

**EOD Compatibility** Wearing the CPO beneath an EOD Suit is the most favorable

configuration to assure chemical/biological protection in the event of an

explosion

E-544 ID# 175

General

Name The U.S. Air Force Saratoga CWU-66/P Chemical Protective Coverall

**ID# 176** 



**Technology** Permeable Saratoga carbon sphere technology

**Stock Number** CWU-66/P; (MIL C-87264)

Protection Type Percutaneous

**Equipment Category** Coverall, Chemical Protective Flight Coverall (MIL C–87264)

**Availability** Fielded 1990, currently in production

Current User(s) U.S. Air Force, the U.S. Air Force selected the CWU–66/P Chemical

Protective Coverall in 1990 as their operational flight suit to provide

aircrew chemical agent protection. It is flame resistant.

Manufacturer Tex-Shield, Inc.

5206 Morrowick Rd Charlotte, NC 28226 POC: Nona Fahl 704–341–3681 (Tel) 704–341–3468 (Fax)

Manufacturer Type Domestic and Foreign

**Developer** Blucher GmbH, Erkrath, Germany/USAF

**Source** Tex-Shield, Inc.

**Certification** U.S. and NATO military chemical protection specifications. (MIL C–

87264).

**Operational Parameters** 

Chemical Warfare (CW) Agents Protected Against All classes of chemical warfare agents when used as directed with chemical warfare protective mask, gloves, and overboots or socks

Biological Warfare (BW) Agents Protected Against

Protects against biological warfare agents when used as directed with

appropriate mask, gloves, and overboots or socks

**Toxic Industrial (TIMs)** 

**Protected Against** 

Not tested

**Duration of Protection** Qualified by DoD for 24 h vapor protection, 6 h liquid protection,

10 launderings, and 30 d wear

E-545 ID# 176

**Recommended Use(s)** Operational flight suit

Physical Parameters

Sizes Available 32S to 52L

Weight < 5 lb depending on size

**Package Size and Volume** 17 in x 22 in

**Power Requirements** None

Material Type Monopack, one layer fabric of Saratoga activated carbon spheres between

PBI/Nomex fabrics

Construction Type Coverall, one piece, unlined with front zipper, Velcro closures at leg and

sleeves, breast pockets, sleeve pocket, and lower leg pockets

**Color** Sage green

Logistical Parameters

Ease of Use 98 % user acceptance

**Consumables** Mpme

Maintenance Requirements General suit inspection. Standard laundering. Record wear use and

launderings.

Shelf Life 10 yr

Transportability Vacuum sealed, compact package

**Operational Limitations** Flame resistant

**Environmental Conditions** No environmental usage limitations. Not affected by rain, fog, snow,

salt, and water.

Unit Cost Not specified

Maintenance Cost None

**Warranty** Free of material and workmanship defects for 1 yr

**Don/Doff Information** Assistance is recommended in doffing contaminated coverall

Use/Reuse Reusable and launderable

Launderability Suit is launderable 10 times for hygienic purposes. Standard home

laundering.

Accessories Suit may be purchased as package with Saratoga gloves, and socks

Special Requirements

Training Requirements No special training required

Training Available No special training required

Manuals Available Instruction manual

E-546 ID# 176

Surveillance Testing No testing required. Inspection for tears and damage required.

Requirements

Support Equipment Chemical warfare mask, gloves, and socks or overboots

**Testing Information** Only approved CWU–66/P. Test data available on request.

**Applicable Regulations** Not specified

**Health Hazards** None

**Communications Interface** 

**Capability** 

Not specified

**EOD Compatibility** Compatible with EOD equipment in CB environment

E-547 ID# 176

General

Name CB Incident Emergency Escape Kit

**ID# 177** 



**Technology** Percutaneous (Tychem® 9400 (durable, puncture and tear- resistant

limited-use fabric). Respiratory (full-face air-purifying respirator).

Stock Number Not specified

**Protection Type** Percutaneous and respiratory

**Equipment Category** The CB Incident Emergency Escape Kit is designed for the safe exit of

areas where hazardous chemical and biological warfare agents have been disseminated. The kit includes a full-face air-purifying respirator with a

chemical-biological/riot control agent.

**Availability** Commercially available

Current User(s) Not specified

Manufacturer EAI Corporation

1308 Continental Drive, Suite J

Abingdon, MD 21009 888-REC-3838 (Tel) 410-671-0058 (Fax)

Manufacturer Type Domestic

**Developer** EAI Corporation

Source www.r-e-c.com

**Certification** Not specified

**Operational Parameters** 

**Chemical Warfare (CW)** Nerve: GA, GB, GD, and VX; blister: HD and L

**Agents Protected Against** 

**Biological Warfare (BW)**Not specified, but literature states it is designed for safe exit where BW

Agents Protected Against agents have been disseminated

Toxic Industrial (TIMs) Not specified

**Protected Against** 

**Duration of Protection** CW- 12 h minimum in each of the chemical groups under protocols DN3,

DN4, DN5, and DN6 (except 2 h for Lewisite under protocol DN4)

E-548 ID# 177

**Recommended Use(s)** Law enforcement, security, medical personnel (e.g., EMS, paramedics,

doctors, and nurses), other personnel predeployed at highly visible events

**Physical Parameters** 

Sizes Available Not specified

Weight Not specified

Package Size and Volume Not specified

Power Requirements Not specified

Material Type Coverall and boots made of Tychem® 9400 (durable, limited-use fabric

with puncture, and tear resistance)

Construction Type Not specified

**Color** Yellow coverall and boot covers; black gloves

**Logistical Parameters** 

Ease of Use Highly mobile, flexible

Consumables Not applicable for coverall

Maintenance Requirements Check for cuts and damage after use

Shelf Life Not specified

**Transportability** Transportable (ensemble is packaged in a nylon duffel bag) and

compatible with life support equipment

**Operational Limitations** Not specified

**Environmental Conditions** Designed to be worn in common outdoor weather conditions, and

climates

Unit Cost Not specified

Maintenance Cost None

Warranty Not specified

**Don/Doff Information** Not specified

Use/Reuse Designed for limited use

**Launderability** Designed for limited use

**Accessories** Boot covers, butyl outer gloves, vinyl inner glove inserts, full-face air-

purifying respirator with a chemical-biological/riot control agent canister

Special Requirements

Training Requirements Not specified

Training Available Not specified

Manuals Available Not specified

**Surveillance Testing** 

Requirements

Inspection for cuts, damage, and chemical contamination

E-549 ID# 177

Support Equipment Full-face air-purifying respirator with a chemical-biological/riot control

agent canister

**Testing Information** Protocols DN3, DN4, DN5, and DN6 for CW agents

**Applicable Regulations** Not specified

Health Hazards Not applicable

**Communications Interface** 

**Capability** 

Not specified

**EOD Compatibility** Not specified

E-550 ID# 177

General

Name SEA Tyvek® "F" Suit Level B

**ID# 178** 



**Technology** Percutaneous—barrier fabric

Tyvek® "F" is manufactured by laminating the basic Tyvek® flash-spunbonded polyethylene material to a barrier film which is coated with a polymer. The top polymer layer allows seams to be made with a heat-sealing tape which includes the same barrier film and polymer as Tyvek® "F." Known chemical warfare agents will not permeate these seams. The SEA Tyvek® "F" positive pressure suit is especially made for the SE400, breath responsive, computerized positive pressure PAPR, with optional gooling system.

optional cooling system.

Stock Number Not specified

**Protection Type** Level B, Percutancous

**Equipment Category** Level B, positive pressure ventilated chemical protective clothing

**Availability** Commercial

**Current User(s)** Frequently used by emergency preparedness teams in Europe

**Manufacturer** SEA

11 Business Park Drive Branford CT 06405

Contact: Bengt Kjellberg, President

203–483–9483 (Tel) 203–483–6633 (Fax)

888-732-3500 (Toll Free U.S. and Canada)

Email: bengtk@sea.com.au http://www.sea.com.au

**Manufacturer Type** Foreign

**Developer** SEA Group

**Source** Brochure and Internet http://www.sea.com.au

**Certification** Tyvek "F" models typically surpass the minimum performance

requirements specified in the European standards. For detailed

information call 888-832-3500.

**Operational Parameters** 

**Chemical Warfare (CW) Agents Protected Against** 

Tested by U.S. Army SBCCOM Edgewood Biological and Chemical Center, Aberdeen Proving Ground, MD. Test parameters available on

request (888-732-3500).

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Biological Warfare (BW) Specification document document

Specification available on request. Call 888–732–3500 and ask for the document regarding Tyvek Barrier Man Chemical Protective Clothing.

Toxic Industrial (TIMs)
Protected Against

Specification available on request. Call 888–732–3500 and ask for the document regarding Tyvek Barrier Man Chemical Protective Clothing.

**Duration of Protection** 

In an environment where guaranteed high protection factor, in combination with long duration time and low weight is needed, and

in combination with positive pressure suit ventilation

**Recommended Use(s)** 

In an environment where guaranteed high protection factor, in combination with long duration time and low weight is needed, and

in combination with positive pressure suit ventilation

<u>Physical Parameters</u>

Sizes Available Size options: L, XL, and XXL

Weight Complete suit 1.5 lb. Suit ventilation system additional 0.5 lb.

Package Size and Volume 9 in x 12 in x 8 in

**Power Requirements** (3) D-alkaline batteries if personal ice cooling system is integrated with

the suit (for 4 h duration)

Material Type Tyvek "F" (high density polyethylene)

Construction Type Heat-sealed seams

**Color** Green

Logistical Parameters

**Ease of Use** Disposable suit specially designed for SE 400 for ease of donning and

doffing with suit ventilation and positive pressure in suit to gain high

protection

**Consumables** Disposable suit

Maintenance Requirements Store in a dry location and avoid direct contact with sunlight for

prolonged periods

**Shelf Life** The projected shelf life of Tyvek "F" fabrics based on accelerated aging

tests according to ASTM 573-88 conducted at 212 °F and 100 psi is 5 yr

**Transportability** The SEA suit can be transported without the need for any special

equipment

**Operational Limitations** The SEA suit is very lightweight with positive pressure and suit cooling

capability option; therefore, there is very little additional workload so the user can perform normal work for longer periods without suffering

discomfort, even in high temperature environments.

**Environmental Conditions** Specification available on request. Call 1–888–732–3500 and ask for

document regarding Tyvek Barrier Man Chemical Protective Clothing.

Unit Cost \$175

Maintenance Cost Disposable

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Warranty The supplier warrants that all products manufactured by it shall be free of

defects in material and workmanship for a period of 1 yr from the date of

delivery

**Don/Doff Information** There is no assistance required for the donning or doff of the SEA suit.

An experienced operator can comfortably don or doff within 2 min.

Use/Reuse Disposable

**Launderability** Disposable

**Accessories** SE 400 positive pressure PAPR system with communication. Positive

pressure ventilation system and integrated personal ice cooling system.

Special Requirements

**Training Requirements** No specific training required other than to read the manual. Fifteen min

will give the user the basic operational understanding. Further training is required for the user to understand the maintenance and care of

the SE400.

**Training Available** SEA can provide full training for use, maintenance, and care of the SEA

suit

Manuals Available Training documentation can be provided

**Surveillance Testing** 

Requirements

Not applicable

Support Equipment Not applicable

**Testing Information** Specification available on request. Call 1–888–732–3500 and ask for

document regarding Tyvek Barrier Man Chemical Protective Clothing.

**Applicable Regulations** European standards

**Health Hazards** The Tyvek "F" garments could be incinerated after use without harming

the environment, or they may be buried in a responsible way

**Communications Interface** 

**Capability** 

SE-TALK—a miniature loudspeaker that connects to the respirator unit as

well as the positive pressure suit cooling system

**EOD Compatibility** 

E-553 ID# 178

**General** 

Name NewPac CEMI COVER DRESS C/91

**ID# 179** 



**Technology** Disposable, 10 plies, impermeable NBC and TIM skin protective two

piece plastic (PE) garment with double barrier of EVAL (EVOH)

Stock Number NewPac/2007 (Alt. NewPac/2015)

Protection Type Percutaneous

Equipment Category Level B, two piece plastic garment with double barrier; shall be used with

APR or PAPR

**Availability** 2 wk

**Current User(s)** First responders and rescue squads in Europe and SE Asia

**Manufacturer** New Pac Safety AB

P.O. Box 174 SE–566 23 Habo

Sweden

+46-36-411-39 (Tel) +46-36-410-31 (Fax) E-mail: info@newpac.se Foreign/Sweden, Europe

Manufacturer Type Foreign/Sweden, Euro

**Developer** New Pac Safety AB

**Source** Createc Consulting LLC, Branford, CT.

www.army-technology.com New Pac Safety

POC: Mr. Hans Almqvist 203–481–7114 (Tel)

**Certification** CE-certified by the notified body 0402, SA, Borås, Sweden. Certificate

No: 19 83 01. Meets European EU Directives 89/686/EEC, Article 10.

**Operational Parameters** 

Chemical Warfare (CW) Agents Protected Against Most types. Documentation by tests with HD.

**Biological Warfare (BW)** 

Most types

**Agents Protected Against** 

**Toxic Industrial (TIMs)** 

Most types

**Protected Against** 

E-554 ID# 179

**Duration of Protection** NBC-proof for more than 24 h. TIM-proof for more than 4 h.

**Recommended Use(s)** First responders for environments with no risk of fire

Physical Parameters

Sizes Available One size, universal fit

**Weight** 2.2 lb (1 kg)

**Package Size and Volume** 11 x 11 x 3 in; 0.18 ft<sup>3</sup>

Power Requirements Not applicable

Material Type Multiply polyethylene (PE) film with two barrier layers of ethylene vinyl

alcohol (EVAL/EVOH). The material is not fire retardant.

Construction Type Two-piece suit with integrated hood and with special foot covers. The

seams are thermo-sealed. Gloves are separate.

**Color** Transparent

Logistical Parameters

Ease of Use Shall be used with APR or PAPR with full-face mask. Mobility and

flexibility are only marginally influenced, but cooling vest is recommended for warm environments to reduce risk of heat stress.

**Consumables** Not applicable

Maintenance Requirements Not applicable; the suit is disposable

**Shelf Life** 20 yr in storage with temperature maximum 122 °F

**Transportability** Easily transported

**Operational Limitations**Must not be exposed to intensive heat or open flame

**Environmental Conditions** Unlimited use in -13 °F to +158 °F (+70 °C). Can withstand short

(4 min) exposure to -40 °F to +572 °F.

Unit Cost \$119

Maintenance Cost Not applicable

Warranty 1 yr. Extended warranty is offered if storage conditions can be

guaranteed.

**Don/Doff Information** Manual is provided

Use/Reuse If contaminated, the suit shall be destroyed by fire under controlled

conditions

Launderability Not applicable

**Accessories** Shall be used with APR or PAPR with full-face mask. Cooling vest is

recommended for warm environments.

**Special Requirements** 

**Training Requirements** 1 h

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Training Available Manual. Training video pending.

Manuals Available Technical specification New Pac TS C/9107–2 and user manual

**Surveillance Testing** 

Requirements

No need for surveillance testing

Support Equipment APR or PAPR with full-face mask. Cooling vest recommended for use in

warm environments.

**Testing Information** New Pac TS C/9107–2

**Applicable Regulations** EU–Directives 89/686/EEC and Article 10

**Health Hazards** No health hazard

**Communications Interface** 

**Capability** 

Not applicable

EOD Compatibility Not specified

E-556 ID# 179

General

Name NewPac First Responder PPE Kit

**ID# 180** 



**Technology** Complete First Responder PPE Kit including protective suit, APR with

full-face mask, canister and manual packaged in storage and carrying bag for use when responding to environments containing NBC agents and/or

TIMs.

Stock Number NewPac/2030

**Protection Type** Percutaneous and respiratory

**Equipment Category** Level B, complete First Responder PPE Kit including protective suit,

APR with full-face mask, canister and manual packaged in storage and carrying bag for use when responding to environments containing NBC

agents and/or TIMs; use APR with full face mask.

**Availability** In May 2001: 3 mo. In fall of 2001: 2 wk.

**Current User(s)** First responders and rescue squads in Europe and SE Asia

Manufacturer New Pac Safety AB

P.O. Box 174 SE-566 23 Habo

Sweden

+46-36-411-39 (Tel) +46-36-410-31 (Fax) E-mail: info@newpac.se

Manufacturer Type Foreign/Sweden, UK, and Hungary

**Developer** New Pac Safety AB

**Source** Createc Consulting LLC, Branford, CT.

www.army-technology.com New Pac Safety

POC: Mr. Hans Almqvist 203–481–7114 (Tel)

**Certification** The suit meets EU standard. NIOSH certification for APR pending. The

kit will be tested to pending NFPA 1994 standard.

**Operational Parameters** 

Chemical Warfare (CW)
Agents Protected Against

Most types

E-557 ID# 180



Biological Warfare (BW) Agents Protected Against Most types

**Toxic Industrial (TIMs)** 

**Protected Against** 

Most types

**Duration of Protection** Not specified

**Recommended Use(s)** First responders for environments not IDLH and with no risk of fire

Physical Parameters

**Sizes Available** One size, universal fit. Full-face mask available in two sizes.

**Weight** 6.6 lb (3 kg)

Package Size and Volume 11 x 11 x 9 in; 0.5 ft<sup>3</sup>

**Power Requirements** Not applicable

Material Type Multiply polyethylene (PE) film with two barrier layers of ethylene vinyl

alcohol (EVAL/EVOH). The material is not fire retardant.

Construction Type Two-piece suit with integrated hood and with special foot covers. The

seams are thermo-sealed. Gloves are separate.

**Color** The suit is transparent

Logistical Parameters

Ease of Use Mobility and flexibility are only marginally influenced, but cooling vest is

recommended for warm environments to reduce risk of heat stress

**Consumables** The canister has to be replaced periodically. Time not specified.

Maintenance Requirements The full-face mask has to be cleaned after each use. Canister and suit are

disposable.

**Shelf Life** 10 yr in storage with temperature maximum 122 °F. Canister to be

replaced periodically.

**Transportability** Easily transported

**Operational Limitations**Must not be exposed to intensive heat or open flame

**Environmental Conditions** Unlimited use in -13 °F to +158 °F (+70 °C)

Unit Cost \$300

Maintenance Cost The full face mask has to be cleaned after each use

Warranty 1 yr. Extended warranty is offered if storage conditions can be

guaranteed.

**Don/Doff Information** Manual is provided

**Use/Reuse** If contaminated, the suit shall be destroyed by fire under controlled

conditions. The canister shall be replaced after each use. The full-face

mask shall be cleaned.

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**Accessories** Cooling vest is recommended for warm environments

**Special Requirements** 

**Training Requirements** 1 h for the use of the kit. Incident commanders need more time

depending on their background.

Training Available Manual. Training video pending.

Manuals Available Technical specification New Pac TS C/9107–2 and user manual

**Surveillance Testing** 

Requirements

No need for surveillance testing

**Support Equipment** Cooling vest recommended for use in warm environments.

Communication equipment can be added.

**Testing Information** New Pac TS C/9107–2 and tests needed for pending NIOSH certification

and NFPA 1994 (pending) approval

**Applicable Regulations** Suit: EU– Directives 89/686/EEC, Article 10 and pending NFPA 1994

APR: 42 CFR 84. Pending NFPA standard 1994.

**Health Hazards** No health hazard

**Communications Interface** 

**Capability** 

The full-face mask can be equipped with communication device

**EOD Compatibility** Not specified

E-559 ID# 180